



Audacity

Suite: Symmetry Confusion

by Arya Akhavan (September 2012)

Angles for R.I. = 1.540

87 + 18 girdles = 105 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.101 T/W = 0.193 U/W = 0.193

P/W = 0.473 C/W = 0.208

Vol./W³ = 0.273

PAVILION

P1	44.78°	08-24-40-56-72-88	Cut to centerpoint.
P2	44.28°	06-10-22-26-38-42-54-58-70-74-86-90	Meet at culet.
G1	90.00°	08-24-40-56-72-88	Set stone size.
G2	90.00°	06-10-22-26-38-42-54-58-70-74-86-90	Level girdle.
P3	43.50°	07-09-23-25-39-41-55-57-71-73-87-89	Meet P1, P2, G1, G2
P4	42.00°	06-10-22-26-38-42-54-58-70-74-86-90	Meet P2, P3

CROWN

C1	65.00°	06-22-26-42-54-70-74-90	Set girdle width.
C2	62.19°	08-40-56-88	Level girdle.
C3	62.93°	10-38-58-86	Level girdle.
C4	65.00°	24-72	Level girdle.
C5	48.35°	96-48	Meet G2, C1
C6	20.21°	96-24-48-72	Meet C1, C2, C5 (no meet near 24)
C7	23.03°	08-16-32-40-56-64-80-88	Meet C1, C2, C5, C6 (no meet near 24)
C8	24.31°	15-33-63-81	Meet C1, C3, C7; C2, C3, C7
C9	16.73°	12-36-60-84	Meet C7, C8
C10	12.00°	96-24-48-72	Meet C6, C7, C9
T	0.00°	Table	Meet C9, C10

Continuing with the theme of mismatched checkerboards, I decided to stick a square checker inside a hexagon. Why? Because I'm still pissed at those influential yet hidebound European dealers. This design is written for amaranth-colored tourmaline, but works from feldspar to rutile (RI = 1.52 - 2.62) with no changes.

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